

Citeph 2020-41: Floating Wind Offshore Turbine Extreme Responses (FLOWER)



Description & Objective:

- Evaluation of design criteria calculation processes applied to Floating Offshore Wind turbines
- Investigation of the ways to build reliable meta-models for extreme value analysis

Scope:

- WP1: Floating Offshore Wind turbines (FOWT) generic case definition
- WP2: Integrated FOWT modelling and simulations for meta-model training dataset
- WP3: Building and assessment of several meta-model
- WP4: Multivariate metocean extreme conditions versus response meta-model
- WP5: Methodology assessment, dissemination of recommendations

TRL (as per EU H2020 scale):

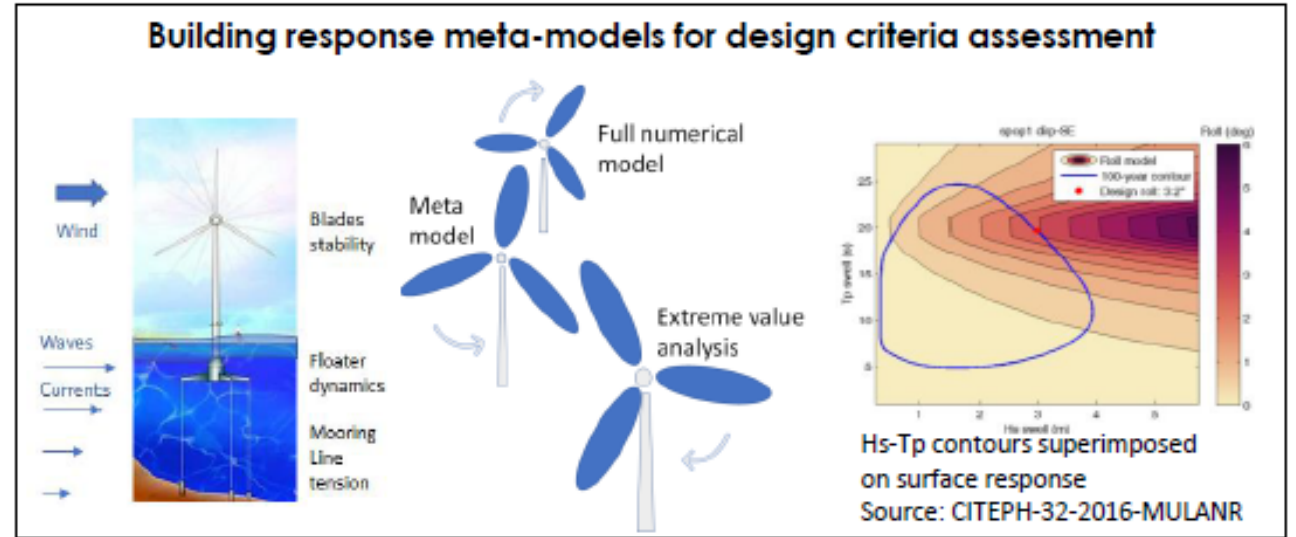
- Currently: TRL 3 / Expected at the end of the Citeph project: TRL 4

Opportunity Value for the Sponsor Companies:

- Optimisation of floating wind turbine design process
- Investigating the meta-models and contours to review the definition of Data Load Cases
- Cooperation and interaction between several skills and experiences on a generic case

Keys words: Floating Offshore Wind Turbine, meta-models, extreme value analysis, design criteria

Duration: 18 months



Project leader

Actimar



Partners

Ifremer, Innosea, ECN



Project sponsors

